

GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI
DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION

RAJYA SABHA

UNSTARRED QUESTION NO. 1852

ANSWERED ON 17.03.2025

**ROLE OF DBOT MODEL IN MAINTENANCE OF SEWAGE TREATMENT PLANT IN
BHADOHI**

1852 #. SHRI RAJIB BHATTACHARJEE
 SMT. REKHA SHARMA
 SHRI NARAYANA KORAGAPPA

Will the Minister of **JAL SHAKTI** be pleased to state:

- (a) the role of Design-Build-Operate-Transfer (DBOT) model in the maintenance of sewage treatment plant in Bhadohi and its role in comparison to previous models of waste water management;
- (b) the manner in which the "Ganga Through the Ages–A Literary Bioscope" initiative will integrate literature and education to promote public participation in river conservation; and
- (c) the manner in which the drone-based monitoring project in the State of West Bengal will enhance the effectiveness of afforestation efforts under Namami Gange Mission-II?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI RAJ BHUSHAN CHOUDHARY)

(a) Earlier, the projects were implemented based on EPC (Engineering, Procurement and Construction) contract, wherein the scope of the selected bidder was to design the STP (Sewage Treatment Plant), procure the equipments and construct the STP. The operation and maintenance (O&M) of the STP was the sole responsibility of the Executing Agency.

Now, the projects are being implemented based on DBOT model (Design-Build-Operate-Transfer), wherein the selected bidder is responsible for designing of STP components, construction of STP and operating the STP for a period of 15 years. DBOT model ensures that the STP meet the Key Performance Indicators (KPI's) as per scope of the contract thus reinforcing pollution abatement objective.

Further, presently, there are no STPs in Bhadohi town, however, NMCG has sanctioned a project for “Interception & Diversion of Drains/ Nalas and STPs at Bhadohi town, UP” at an estimated cost of Rs. 127.26 crore under Namami Gange Mission – II.

(b) The *Ganga Through the Ages - A Literary Bioscope* is a transformative campaign, driven by a mix of on-ground initiatives such as school programs and community engagements, and off-ground efforts like digital and literary campaigns. It is aimed at creating a lasting legacy of environmental conservation, cultural

revival, and literary engagement around the Ganga, which ensures sustained outreach and deeper connections with communities.

(c) NMCG has sanctioned a project “Drone-based monitoring of plantations raised under Namami Gange in West Bengal” to North Eastern Space Applications Centre (NESAC) [a joint initiative of Department of Space (DOS) and the North Eastern Council (NEC)].

The aim of the project is to strengthen the monitoring system of afforestation projects. The drone survey will capture the canopy of the plants which will indicate the vigour of the plant and provide a high-resolution imagery of the afforestation areas. Under this project, a drone-based digital database will be developed.
